

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
**WO 2005/072632 A1**

(51) International Patent Classification<sup>7</sup>: **A61B 17/70**

(21) International Application Number:  
PCT/IB2005/000341

(22) International Filing Date: 21 January 2005 (21.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04 00745 27 January 2004 (27.01.2004) FR  
60/554,416 19 March 2004 (19.03.2004) US  
04 11266 22 October 2004 (22.10.2004) FR

(71) Applicant (for all designated States except US): **MEDICREA INTERNATIONAL** [FR/FR]; 24 Porte du Grand Lyon, F-01700 NEYRON (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SOURNAC, Denys**

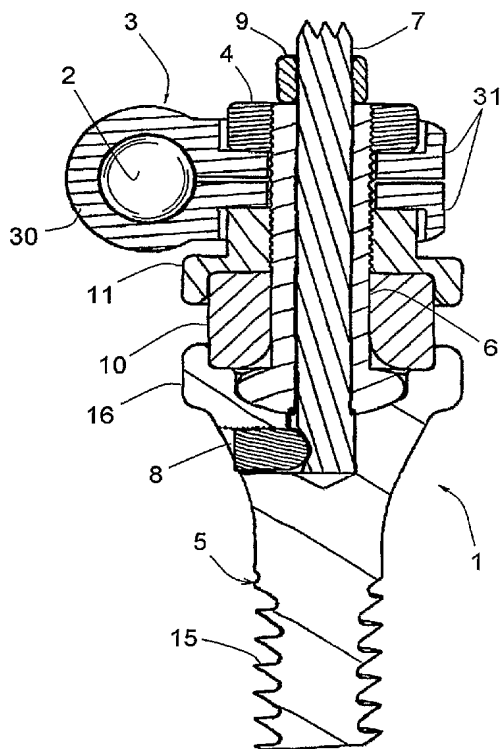
[FR/FR]; 345 Montée de Bellevue, F-01600 REYRIEUX (FR). **CAFFIERO, Jean-Philippe** [FR/FR]; 12 rue du Commandant Faurax, F-69006 LYON (FR). **CARLIER, François** [FR/FR]; Allée de Colveu, F-44352 GUERANDE (FR).

(74) Common Representative: **MEDICREA INTERNATIONAL**; 24 Porte du Grand Lyon, F-01700 NEYRON (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: VERTEBRAL OSTEOSYNTHESIS EQUIPMENT



(57) Abstract: This vertebral osteosynthesis equipment includes bony anchoring members, such as pedicular screws (1), one or two linking rods (2), intended to be connected to these anchoring members, and connection assemblies (6, 3) of this or these rods (2) to these anchoring members, at least one of these anchoring members (1) being of the "polyaxial" type, i.e. including a connection part (6) articulated with respect to a base portion (5) intended to be attached to the vertebrae. According to the invention, said "polyaxial" anchoring element (1) comprises a flexible junction portion (7) connecting said connection part (6) and said base portion (5), this flexible junction portion (7) providing the desirable joint of this connection part (6) with respect to the base portion (5).



**(84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*